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Resume of Daniel Joseph Collins, 1991-07

Collins, Daniel Joseph

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RESUME OF DANIEL JOSEPH COLLINS

Daniel J. Collins was Born in Philadelphia, Pennsylvania, in 1929. He attended Lehigh University at Bethlehem where he majored in mathematics. He received the degree of Bachelor of Arts magna cum laude in 1954. Graduate study followed at California Institute of Technology, Pasadena, where he received the degree of Master of Science in 1955.



He was on active duty as an officer in the US Army from 1950 to 1952. The academic year 1955-56 was spent as a Fulbright Scholar at the Technische Hochschule, Munich, Germany. He returned to California Institute of Technology and received the degree of Doctor of Philosophy in Engineering Science and Physics in 1961.

Post-doctoral work followed at Harvard University where he began investigations in high temperature gas dynamics. In particular, transport properties of high temperature helium were obtained in a free piston shock tube.

At Jet Propulsion Laboratory he continued his investigation into high temperature transport properties. He was responsible for the development of the hypervelocity shock tube laboratories. At General Motors Defense Research Laboratories he developed laser photographic and shadowgraph techniques which were applied to free-flight model photography.

He joined the faculty of the Department of Aeronautics at the Naval Postgraduate School, Monterey, California, in August, 1967 and was appointed Department Chairman in July 1991. He has been active in the application of lasers to flow field measurements (LDA and Holography). His present emphasis is in the area of H control theory of missiles and aircraft. Another major emphasis is on neural networks in control theory and target identification. He recently completed a two year tour as a scientific liaison officer in the London ONR office.

He is fluent in French and German. His academic honors and societies have included Phi Beta Kappa, Tau Beta Pi, Pi Tau Sigma, and Sigma Xi. In addition, he has been a Ford Foundation Fellow, Fulbright Scholar, Institute Scholar, C.I.T. and Post Doctoral Fellow, Harvard.